

Title (en)

System and method for electron beam irradiation

Title (de)

Vorrichtung und Verfahren zur Bestrahlung mittels Elektronen

Title (fr)

Dispositif et procédé d'irradiation par faisceau d'électrons

Publication

**EP 1339085 A2 20030827 (EN)**

Application

**EP 03251031 A 20030220**

Priority

JP 2002049258 A 20020226

Abstract (en)

An electron beam irradiation system for shooting an electron beam at a master disk to make recordings. This system is capable of focusing the beam easily and accurately in a corresponding manner to the master disk, thus permitting accurate recordings. The system has a support mechanism portion holding the master disk on it. The support mechanism portion has a slide table on which a focusing stage is placed. The focusing stage has a knife edge and a Faraday cup. The knife edge is located immediately beside the master disk. When recordings are made, an electron beam is first shot at the focusing stage and brought to focus. Then, the beam is shot at the master disk, thus making recordings. <IMAGE>

IPC 1-7

**H01J 37/304**; **H01J 37/20**

IPC 8 full level

**A61N 5/00** (2006.01); **G01N 23/00** (2006.01); **G01Q 30/02** (2010.01); **G01Q 30/20** (2010.01); **G01T 1/29** (2006.01); **G11B 7/004** (2006.01); **G11B 7/09** (2006.01); **G11B 7/26** (2006.01); **G21G 5/00** (2006.01); **G21K 5/04** (2006.01); **H01J 37/04** (2006.01); **H01J 37/18** (2006.01); **H01J 37/20** (2006.01); **H01J 37/21** (2006.01); **H01J 37/252** (2006.01); **H01J 37/304** (2006.01); **H01J 37/305** (2006.01)

CPC (source: EP US)

**H01J 37/18** (2013.01 - EP US); **H01J 37/21** (2013.01 - EP US); **H01J 37/305** (2013.01 - EP US); **H01J 37/3056** (2013.01 - EP US); **H01J 2237/162** (2013.01 - EP US); **H01J 2237/188** (2013.01 - EP US); **H01J 2237/216** (2013.01 - EP US); **H01J 2237/24405** (2013.01 - EP US)

Cited by

CN111722263A

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 1339085 A2 20030827**; **EP 1339085 A3 20050817**; JP 2003249188 A 20030905; US 2003178582 A1 20030925; US 6734437 B2 20040511

DOCDB simple family (application)

**EP 03251031 A 20030220**; JP 2002049258 A 20020226; US 37476403 A 20030225